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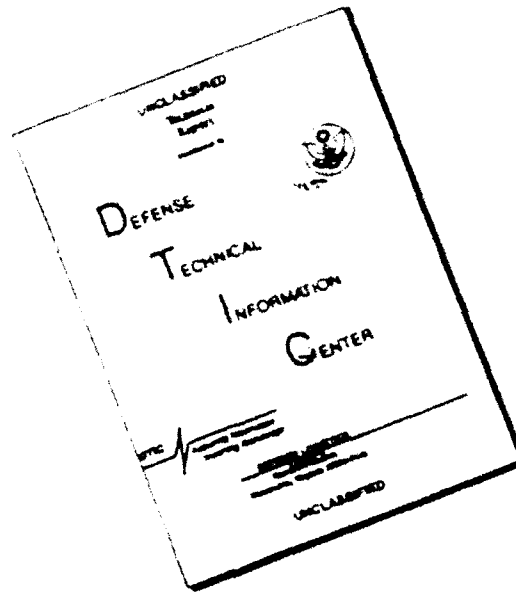
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A Cultural Resources Survey of the
Old Town Bend Revetment
Phillips County, Arkansas--A Negative Finding Report

U. S. Army Corps of Engineers
Memphis District

Jimmy McNeil
Staff Archeologist

October 1984

Abstract

On 27 September, an intensive cultural resources survey was conducted by the Environmental Branch of the U. S. Army Corps of Engineers, Memphis District Staff Archeologist, Mr. Jimmy McNeil, and Civil Engineer, Mr. David McNutt. The failure at the Old Town Bend revetment and a new construction area was surveyed.

The two Old Town Bend areas are located in Township 4S, Range 5W, Section 24 NW 1/4 of the NW 1/4 of the SW 1/4, and Section 24 SW 1/4 of the NW 1/4 of the SW 1/4 and NW 1/4 of the SW 1/4 of the SW 1/4 of the Farrell, Arkansas-Mississippi Quadrangle Map. The repair area covers approximately 4.0 acres and the new construction area covers approximately 7.5 acres adjacent to the Mississippi River.

The proposed work includes repair and maintenance of the existing revetment and construction of a new portion of revetment. Maintenance may include grading, replacing the concrete skirt, and riprapping the top bank. New construction will include grading, laying concrete skirting, and riprapping the top bank.

A literature search and a pedestrian survey did not locate any prehistoric, historic, or architectural sites within the project right-of-way.

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Map 2	Enlarged view of the Old Town Bend Project area.

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Introduction

An intensive survey for cultural resources was conducted by Memphis District Archeologist, Mr. Jimmy McNeil, and Civil Engineer, Mr. David McNutt, on 27 September 1984, within the Old Town Bend revetment right-of-way as directed by the U. S. Army Corps of Engineers, Memphis District. The study was performed as required by the National Environmental Policy Act of 1969 (Public Law 91-190), Protection and Enhancement of Cultural Historic and Cultural Properties (36CFR 800), and the National Historic Preservation Act of 1966 (Public Law 898-665).

Project Description

The Old Town Bend revetment is located in Phillips County, Arkansas, Township 4S, Range 5W, Section 24 NW 1/4 of the NW 1/4 of the SW 1/4, and Section 24 SW 1/4 of the NW 1/4 of the SW 1/4 and NW 1/4 of the SW 1/4 of the SW 1/4 at river mile 641R, ranges 347-349L and 352-362, on the Farrell, Arkansas-Mississippi Quadrangle. The project will affect only the proposed revetment maintenance and repair area and the new revetment construction area (Maps 1 and 2). Equipment will be brought in by boat.

Environmental Setting

The project lies within the Mississippi River meander belt where alluvial deposits are more than 200 feet thick over unconsolidated material. Elevations range from 148 feet to 175 feet with a slope ranging from

1 to 3 percent. The higher elevations are mainly natural levees along present or old streams (Hogan and Gray 1974:2). The elevations and slopes do not apply to the man-made levees. Drainage is by bayous, sloughs, and man-made ditches.

The climate is generally warm during the summer and mild during the winter. Occasionally, there will be extremes in heat and cold temperatures. A great deal of the woodlands area in the county has been cleared. However, small areas of trees may be found near the edge of bayous and along the Mississippi River. Primarily, the trees are willow, oak, cottonwood, hackberry, and sycamore. Underbrush consists of cane, honeysuckle, blackberry and wild grape.

Fauna in the area are not plentiful. Mammals include: rabbit, squirrel, raccoon, deer, possibly mink, muskrat, and beaver. Numerous cottonmouths, rattlesnakes, and other reptiles are reported in the area.

Previous Research

Enough work has been conducted in the general area of the project, by such researchers as Phillips, Ford and Griffin (1951), to isolate and date major cultural periods. However, little survey research has been conducted in the immediate vicinity of the project. The most recent intensive survey work in this area was conducted by Soil Systems, Incorporated (1977), and McNeil (1982), both for the Memphis District, U. S. Army Corps of Engineers.

Results of the Records Search

The Arkansas Archeological Survey and the National Register of Historic Places were consulted and no prehistoric, historic, or architectural cultural remains were recorded within the project area.

Survey Methodology and Results

The Old Town Bend revetment maintenance project area is approximately 4.0 acres in size and the new revetment construction area is approximately 7.5 acres in size. The survey limits extended 60.96 meters behind top bank and 250 meters along the river edge at the maintenance area and 60.96 meters behind top bank and 335.28 meters along the river edge at the new construction area. The surface behind top bank was covered with grasses, bushes and trees, visibility was zero percent. The area of failure provided a clean view of the subsurface stratigraphy. The area profile was: surface sand deposit to approximately 20 cm deep; 20 cm-190 cm was brown sandy clay alternating with light brown sand (each varve about 10 cm thick); 190 cm to unknown was blocky grayish brown clay.

Because of the poor visual conditions, shovel test units were dug every 30 meters. Shovel cuts and along the eroding revetment profiles revealed no artifacts, features, nor soil discoloration that would indicate archeological sites.

The survey methodology used does not eliminate the possibility of encountering deeply buried sites. Therefore, it is recommended that any site encountered during construction be protected from further damage, by stopping construction until its significance can be determined by the Environmental Resources Branch, Memphis District, U. S. Army Corps of Engineers in conjunction with the Arkansas Historic Preservation Program.

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